GRAFTON
Massachusetts

Joe Laydon <laydonj@grafton-ma.gov>

104 Creeper Cell Tower

RECEIVED
OCT - 3 2016
PLANNING BOARD
GRAFTON, MA

Jeffrey Walsh <JWalsh@gravesengineering.com> Mon, Oct 3, 2016 at 3:23 PM
To: Joe Laydon <laydonj@grafton-ma.gov>

Joe,

The supporting documentation submitted by Chris Hesse (attached herein) essentially supports their position of the project having a "de minimus" impact on stormwater.

I took the liberty of running two conceptual hydrology scenarios – a pre-development and a post-development scenario using the 10,000 sq. ft. lease area (lease area is noted on Sheet 4 of the plans). (The impervious area of 761 sq. ft. is only 7.6% of the lease area, not 21.14% as reported in the attached documents.) Anyway, during a 100-year storm of 8 inches of rainfall over a 24-hour period the peak runoff rates were in the 0.2 to 0.3 cfs range. I concur with the "de minimus" position.

As for quality, runoff from the impervious areas should reasonably be considered in the same context as "clean" roof runoff – treatment is not necessary.

As for recharge, the required recharge volume (0.6 inches times the impervious area) amounts to 38 cubic feet (also a "de minimus" amount).

Lastly, construction-phase erosion and sediment control will need to be addressed on a plan so that the contractor can be held accountable. The site is only a small threat (fairly level site, sandy soils, work is set back from resource areas) but still, a plan is the best way to memorialize the minimum erosion control efforts of the contractor. Sediment and erosion control plans are customarily submitted during permitting. If it's OK with you and the Board, perhaps a condition of approval (if the project is approved) could require submittal, review and approval of a construction-phase sediment and erosion control plan prior to the start of construction.

Please let me know if you or the Board have any questions concerning these comments.

Thanks,

Jeff

JEFFREY M. WALSH, P.E.